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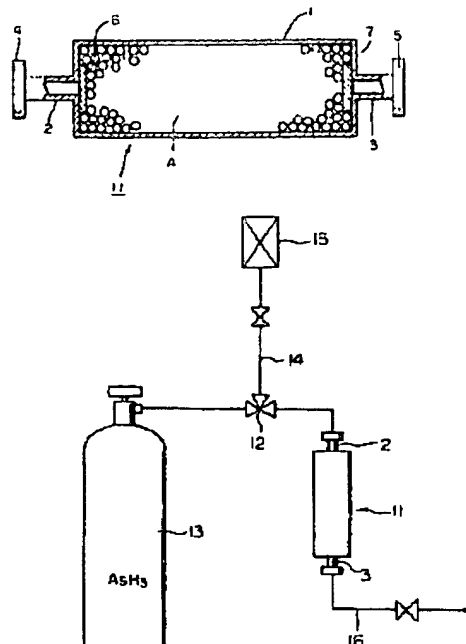
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APPLICANT : NIPPON SANZO KK;

INVENTOR : SATO MASATO;

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TITLE : PURIFICATION OF ARSINE



ABSTRACT : PURPOSE: To improve purity of arsine by purifying arsine at a prescribed temperature using an activated alumina gel.

CONSTITUTION: A three-way changeover valve 12 is operated and N_2 gas heated to $110-200^\circ C$ from a gas generating means 15 is fed to a purification device 11 to activate granular alumina gel A in a column 1 made of stainless steel, etc. Then after finishing activation, unpurified arsine is fed from a bomb 13 to a purification device 11 at a flow rate of about $100-250 \text{ ml/min}$ based on 10 g alumina gel A by operating the three-way valve to start purification. In the column 1, the inside is heated by installing a heater and a temperature when unpurified arsine is brought into contact with alumina gel A is raised to $\geq 10^\circ C$. Thereby purified arsine removed impurities is obtained from an outlet pipe 3 of the purification device 11.

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